

**IN THE CLAIMS:**

Please cancel, without prejudice or disclaimer, claims 1, and 17- 21. The following listing of claims replaces all prior versions of the claims and all prior listings of the claims in the present application.

Claims 1-21 (cancelled)

22. (Previously Presented) A process for manufacturing, moulding, and curing a tyre, comprising the steps of:

manufacturing a green tyre comprising a first elastomer material;

providing an inner surface of the tyre with a treatment to prevent permeation of a fluid under pressure through the treatment;

closing the tyre into a moulding cavity defined in a vulcanization mould, the moulding cavity including at least one wall;

admitting a fluid under pressure into a space defined by the treatment in order to press an outer surface of the tyre against the at least one wall of the moulding cavity; and

applying heat to the tyre to vulcanize the first elastomer material;

wherein a shape of the at least one wall of the moulding cavity matches a shape of the outer surface of the tyre after vulcanization is complete, and

wherein the treatment comprises at least one layer of a second elastomer material comprising a sulfur-curable polymeric base and a vulcanizing system in an aqueous emulsion.

23. (Previously Presented) The process of claim 22, wherein the polymeric base is natural rubber, epoxy natural rubber, chloroprene, acrylonitrile-butadiene copolymers, halogenated butyl rubber, styrene-butadiene copolymers, isobutylene/p-methyl-styrene

copolymers, halogenated isobutylene/p-methyl-styrene copolymers, polybutadiene, or mixtures thereof.

24. (Previously Presented) The process of claim 23, wherein the polymeric base is natural rubber, chloroprene, acrylonitrile-butadiene copolymers, styrene-butadiene copolymers, isobutylene/p-methyl-styrene copolymers, or mixtures thereof.

25. (Previously Presented) The process of claim 22, wherein the vulcanizing system comprises a vulcanization accelerator selected from the group consisting of dithiocarbamates, thiourames, thiazole compounds, or mixtures thereof.

26. (Previously Presented) The process of claim 25, wherein the vulcanization system further comprises N-cyclohexyl-N-ethylamine or diphenylguanidine.